INTERNATIONAL SEARCH REPORT

International application No.

PCT/JP2005/006107

A. CLASSIFIC. Int.Cl ⁷	ATION OF SUBJECT MATTER F04D29/28, B22C7/02, 9/04, 9/2	2, B22D21/00, F02B39/0	0 .
According to Inte	rnational Patent Classification (IPC) or to both national cl	lassification and IPC	
B. FIELDS SE.	ARCHED		
Int.Cl ⁷	entation searched (classification system followed by class: F04D29/28, B22C7/02, 9/04, 9/2	2, B22D21/00, F02B33/0	
Jitsuyo Kokai Ji	earched other than minimum documentation to the extent Shinan Koho 1922-1996 Jits tsuyo Shinan Koho 1971-2005 Torc ase consulted during the international search (name of dat	oku Jitsuyo Shinan Koho	1994-2005
Lista			
C. DOCUMEN	NTS CONSIDERED TO BE RELEVANT		
Category*	Citation of document, with indication, where appr	opriate, of the relevant passages	Relevant to claim No.
A	JP 2002-113749 A (HMY, Ltd.), 16 April, 2002 (16.04.02), Par. Nos. [0008], [0014]; Figs (Family: none)	s. 1 to 5	1-11
A	JP 2004-52754 A (BorgWarner Inc.), 19 February, 2004 (19.02.04), Par. Nos. [0053] to [0055]; Fig. 1 & US 6588485 B1 & EP 1361008 A1		1-11
. A	JP 63-171242 A (Nissan Motor 15 July, 1988 (15.07.88), Page 5, Figs. 1 to 8 (Family: none)	Co., Ltd.),	9-11
× Further o	documents are listed in the continuation of Box C.	See patent family annex.	
Special categories of cited documents: A document defining the general state of the art which is not considered to be of particular relevance. E earlier application or patent but published on or after the international filing date. C document which may throw doubts on priority claim(s) or which is cited to establish the publication date of another citation or other special reason (as specified). O document referring to an oral disclosure, use, exhibition or other means document published prior to the international filing date but later than the priority date claimed.		the international filing date or priority date and not in conflict with the application but cited to understand the principle or theory underlying the invention. The document of particular relevance; the claimed invention cannot be considered novel or cannot be considered to involve an inventive step when the document is taken alone. The document of particular relevance; the claimed invention cannot be considered to involve an inventive step when the document is combined with one or more other such documents, such combination being obvious to a person skilled in the art document inember of the same patent family. Date of mailing of the international search report.	
17 Ju	ne, 2005 (17.06.05)	05 July, 2005 (05	.07.05)
Name and mai Japan	ling address of the IS.V ese Patent Office	Authorized officer	
Faccimile No		Telephone No.	

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(Continuation). DOCUMENTS CONSIDERED TO BE RELEVANT		
Category*	Citation of document, with indication, where appropriate, of the releva	nt passages	Relevant to claim No.
A	JP 2002-336932 A (Daido Steel Co., Ltd.) 26 November, 2002 (26.11.02), Par. Nos. [0011] to [0014] (Family: none)	10-11	
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